

FILE 'HOME' ENTERED AT 16:29:17 ON 20 JAN 2004

=> file agricola biosis caplus caba

=> s hordothionin
L1 86 HORDOTHIONIN

=> duplicate remove l1
L2 49 DUPLICATE REMOVE L1 (37 DUPLICATES REMOVED)

=> d ti 1-49

L2 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
TI Sequences of soybean seed specific 7S.alpha. promoters and use for expressing genes in plants

L2 ANSWER 2 OF 49 CABA COPYRIGHT 2004 CABI on STN
TI Expression of an altered antimicrobial **hordothionin** gene in barley and oat.

L2 ANSWER 3 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Expression of a seed-specific antifungal protein **hordothionin** gene is inhibited in the leaves of transgenic barley and oat at the pre- and post-translational levels.

L2 ANSWER 4 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Enhanced resistance to *Venturia inaequalis* in transgenic apple by a gene coding for **hordothionin**.

L2 ANSWER 5 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Constitutive expression of an endogenous antifungal protein alpha-**hordothionin** in transgenic barley.

L2 ANSWER 6 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
TI Binding of barley and wheat .alpha.-thionins to polysaccharides

L2 ANSWER 7 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI NMR structural determination of viscotoxin A3 from *Viscum album* L.

L2 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
TI Transformation of barley with antifungal protein genes

L2 ANSWER 9 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI High lysine derivatives of alpha-**hordothionin**.

L2 ANSWER 10 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI High methionine derivatives of alpha-**hordothionin**.

L2 ANSWER 11 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI High threonine derivatives of alpha-**hordothionin**.

L2 ANSWER 12 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
TI Increasing endosperm content of essential amino acids using genes for proteins rich in these amino acids

L2 ANSWER 13 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI High methionine derivatives of alpha-**hordothionin** for pathogen-control.

L2 ANSWER 14 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Amino acid sequence, S-S bridge arrangement and distribution in plant tissues of thionins from *Viscum album*.

L2 ANSWER 15 OF 49 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 3
TI Purification and characterization of a new class of insect alpha-amylase inhibitors from barley.

L2 ANSWER 16 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
TI High-methionine derivatives of .alpha.-**hordothionin** and the transformation of improved plant crops

L2 ANSWER 17 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
TI High-threonine derivatives of .alpha.-**hordothionin** and the transformation of improved plant crops

L2 ANSWER 18 OF 49 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 4
TI Fungal membrane responses induced by plant defensins and thionins.

L2 ANSWER 19 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI Determination of the three-dimensional structure of **hordothionin**
-alpha by nuclear magnetic resonance.

L2 ANSWER 20 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Gibberellin-repressible gene expression in the barley aleurone layer.

L2 ANSWER 21 OF 49 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 6
TI Toxicity of peptides to bacteria present in the vase water of cut roses.

L2 ANSWER 22 OF 49 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 7
TI Primary structure of omega-**hordothionin**, a member of a novel
family of thionins from barley endosperm, and its inhibition of protein
synthesis in eukaryotic and prokaryotic cell-free systems.

L2 ANSWER 23 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI 1H-NMR studies on the structure of a new thionin from barley endosperm.

L2 ANSWER 24 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
TI High lysine derivatives of .alpha.-**hordothionin** retaining
anti-fungal properties

L2 ANSWER 25 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Structure-function validation of high lysine analogs of alpha-
hordothionin designed by protein modeling.

L2 ANSWER 26 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
TI Hordothionins inhibit protein synthesis at the level of initiation in the
wheat-germ system

L2 ANSWER 27 OF 49 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 10
TI Expression of biologically active hordothionins in tobacco. Effects of
pre- and pro-sequences at the amino and carboxyl termini of the
hordothionin precursor on mature protein expression and sorting.

L2 ANSWER 28 OF 49 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 11
TI Solution structure of gamma 1-H and gamma 1-P thionins from barley and
wheat endosperm determined by 1H-NMR: a structural motif common to toxic
arthropod proteins.

L2 ANSWER 29 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
TI Analysis of the toxicity of purothionins and hordothionins for plant
pathogenic bacteria

L2 ANSWER 30 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Validation of the structure-function properties of alpha-
hordothionin and derivatives through protein modeling.

L2 ANSWER 31 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN
TI Sequence-tagged-site-facilitated PCR for barley genome mapping

L2 ANSWER 32 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI CLONING OF A BARLEY GENE ALPHA **HORDOTHIONIN** AND EXPRESSION IN
TRANSGENIC TOBACCO.

L2 ANSWER 33 OF 49 CABA COPYRIGHT 2004 CABI on STN
TI Plant biotechnology.

L2 ANSWER 34 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI PLANT BIOTECHNOLOGY SYNTHETIC **HORDOTHIONIN** GENES AS TOOLS FOR
BACTERIAL DISEASE RESISTANCE BREEDING.

L2 ANSWER 35 OF 49 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 12
TI A proteinase from germinated barley. II. Hydrolytic specificity of a 30
kilodalton cysteine proteinase from green malt.

L2 ANSWER 36 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI PRIMARY STRUCTURE AND INHIBITION OF PROTEIN SYNTHESIS IN EUKARYOTIC
CELL-FREE SYSTEM OF A NOVEL THIONIN GAMMA **HORDOTHIONIN** FROM
BARLEY ENDOSPERM.

L2 ANSWER 37 OF 49 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN

TI Synthetic hordothionin genes as tools for bacterial disease
resistance breeding.

L2 ANSWER 38 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI NUCLEOTIDE SEQUENCE AND ENDOSPERM-SPECIFIC EXPRESSION OF THE STRUCTURAL
GENE FOR THE TOXIN ALPHA HORDOTHIONIN IN BARLEY HORDEUM-VULGARE

L2 ANSWER 39 OF 49 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN

TI Isolation and characterization of cDNAs coding for leaf-specific thionins
closely related to the endosperm-specific hordothionin of barley
(Hordeum vulgare L.).

L2 ANSWER 40 OF 49 CABA COPYRIGHT 2004 CABI on STN

TI Molecular genetics of barley endosperm proteins.

L2 ANSWER 41 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

TI CM-proteins and thionins in cereals: characterization and cloning of cDNA

L2 ANSWER 42 OF 49 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN

TI Cloning and nucleotide sequence of a cDNA encoding the precursor of the
barley toxin alpha-hordothionin.

L2 ANSWER 43 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI POLYADENYLATION SITE HETEROGENEITY IN MESSENGER RNA ENCODING THE PRECURSOR
OF THE BARLEY TOXIN BETA HORDOTHIONIN.

L2 ANSWER 44 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

TI Persistence of hordothionin in germinating barley and malt

L2 ANSWER 45 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

TI Proton NMR studies of barley and wheat thionins: structural homology with
crambin

L2 ANSWER 46 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

TI Comparative analysis of the primary structure of grain thionins

L2 ANSWER 47 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

TI THIONINS PLANT PEPTIDES THAT MODIFY MEMBRANE PERMEABILITY IN CULTURED
MAMMALIAN CELLS.

L2 ANSWER 48 OF 49 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN

TI External association of hordothionin with protein bodies in
mature barley.

L2 ANSWER 49 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

TI Purothionin analogs from barley flour

=> d bib abs 37 30 24 19 12 9 2 3 5

L2 ANSWER 37 OF 49 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN

AN 91:53193 AGRICOLA

DN IND91028412

TI Synthetic hordothionin genes as tools for bacterial disease
resistance breeding.

AU Florack, D.E.A.; Visser, L.; Vloten-Doting, L.; Heidekamp, F.; Stiekema,
W.J.

CS Centre for Plant Breeding Research CPO, Wageningen

AV DNAL (S494.5.B563A47)

SO [Agricultural biotechnology in focus in the Netherlands / J.J. Dekkers,
H.C. van der Plas & D.H. Vuijk (eds.)], p. 34-48
Publisher: Wageningen, Netherlands : Pudoc, 1990.
ISBN: 9022010082.

NTE Includes references.

DT Article

FS Non-U.S. Imprint other than FAO

LA English

L2 ANSWER 30 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 1993:287236 BIOSIS
 DN PREV199345005361
 TI Validation of the structure-function properties of alpha-
hordothionin and derivatives through protein modeling.
 AU Rao, A. Gururaj [Reprint author]; Hassan, M. [Reprint author]; Hempel, J.
 CS Dep. Biotechnol. Res., Pioneer Hi-Bred Int., 7250 NW 62nd Ave., Johnston,
 IA 50322, USA
 SO Protein Engineering, (1993) Vol. 6, No. SUPPL., pp. 117.
 Meeting Info.: Winter Symposium on Advances in Gene Technology: Protein
 Engineering and Beyond. Miami, Florida, USA. 1993.
 CODEN: PRENE9. ISSN: 0269-2139.
 DT Conference; (Meeting)
 LA English
 ED Entered STN: 17 Jun 1993
 Last Updated on STN: 18 Jun 1993

L2 ANSWER 24 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1994:697398 CAPLUS
 DN 121:297398
 TI High lysine derivatives of .alpha.-hordothionin retaining
 anti-fungal properties
 IN Rao, A. Gururaj; Beach, Larry R.
 PA Pioneer Hi-Bred International, Inc., USA
 SO PCT Int. Appl., 26 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9416078	A2	19940721	WO 1994-US382	19940112
	WO 9416078	A3	19940901		
	W:	AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, UZ, VN			
	RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	CA 2161881	AA	19940721	CA 1994-2161881	19940112
	CA 2161881	C	20010327		
	AU 9461622	A1	19940815	AU 1994-61622	19940112
	EP 745126	A1	19961204	EP 1994-908585	19940112
	EP 745126	B1	20010912		
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE			
	AT 205533	E	20010915	AT 1994-908585	19940112
	US 5990389	A	19991123	US 1997-838763	19970410
PRAI	US 1993-3885	A	19930113		
	WO 1994-US382	W	19940112		
	US 1995-369975	B1	19950106		
	US 1995-575654	B1	19951220		

OS MARPAT 121:297398
 AB Derivs. of .alpha.-hordothionin with position-specific substitutions of
 amino acids with lysine increases the lysine content of the protein while
 retaining the antifungal activity of the parent compd. The protein may be
 used for improving fungal pathogen resistance in plants and in the
 treatment of fungal infections of animals (no data). Modeling of the
 structure of the protein and sequence comparison was used to identify
 residues essential for protein structure and a series of analogs with
 substitution of lysines at non-essential sites were prepd. by Fastmoc.RTM.
 chem. and tested for antifungal activity. The proteins were active
 against *Aspergillus flavus*, *Sclerotinia sclerotiorum*, *Fusarium*
graminareum, and *F. moniliforme* in in vitro tests.

L2 ANSWER 19 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 5

AN 1996:113949 BIOSIS
 DN PREV199698686084
 TI Determination of the three-dimensional structure of **hordothionin**
 -alpha by nuclear magnetic resonance.
 AU Han, Kyu-Hoon [Reprint author]; Park, Kyu-Hwan; Yoo, Hyun-Ju; Cha, Hoon;
 Suh, Se Won; Thomas, Fairwell; Moon, Tae-Sung; Kim, Seung-Moak
 CS Korea Res. Inst. Biosci. Biotechnol., KIST, Yusong P.O. Box 115, Taejon
 305-600, South Korea
 SO Biochemical Journal, (1996) Vol. 313, No. 3, pp. 885-892.
 ISSN: 0264-6021.
 DT Article
 LA English
 ED Entered STN: 12 Mar 1996
 Last Updated on STN: 12 Mar 1996

AB The high-resolution three-dimensional solution structure of the plant
 toxin **hordothionin**-alpha obtained from Korean barley was
 determined by using two-dimensional NMR techniques combined with distance
 geometry and restrained molecular dynamics. Experimentally derived
 restraints including 292 interproton distances from nuclear Overhauser
 effect measurements, 16 hydrogen bond restraints together with four
 disulphide bridge restraints were used as input to calculations of

distance geometry and restrained molecular dynamics. Also included in the calculations were 36 ν phi and 17 χ -1 torsion angles obtained from 3J-HNalpha and 3J-alpha-beta coupling constants in double quantum filtered COSY and primitive exclusive COSY experiments, respectively. The overall protein fold is similar to crambin and purothionin-alpha-1. Two alpha-helices running in opposite directions are found on the basis of 3J-HNalpha and 3J-alpha-beta and deuterium exchange rates for backbone NH protons, and encompass residues 7-18 and 22-28. These two helices are connected by a turn and form a 'helix-turn-helix' motif. A short stretch of an anti-parallel beta-sheet exists between residues 1-4 and 31-34. The two protein termini of hordothionin-alpha are 'well-anchored': the N-terminus of the protein is immobilized by this short beta-sheet whereas the C-terminus is 'pasted' to the carbonyl group of Cys-4 by a very stable hydrogen bond. The average root-mean-square differences for the backbone and heavy atoms after the restrained molecular dynamics calculations are 0.62 and 1.16 ANG respectively. These numbers represent a significant improvement over the corresponding values for the previous NMR structures of other thionins. The distance violation from the experimental interproton distances for the final structures is 0.14 ANG for all atoms.

L2 ANSWER 12 OF 49 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:511266 CAPLUS

DN 131:142181

TI Increasing endosperm content of essential amino acids using genes for proteins rich in these amino acids

IN Jung, Rudolf; Beach, Larry R.; Dress, Virginia M.; Rao, A. Gururaj; Ranch, Jerome P.; Ertl, David S.; Higgins, Regina K.

PA Pioneer Hi-Bred International, Inc., USA

SO PCT Int. Appl., 49 pp.

CODEN: P1XXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9940209	A1	19990812	WO 1999-US2061	19990127
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2320957	AA	19990812	CA 1999-2320957	19990127
AU 9924876	A1	19990823	AU 1999-24876	19990127
EP 1053338	A1	20001122	EP 1999-904488	19990127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9907752	A	20020129	BR 1999-7752	19990127
ZA 9900913	A	19991124	ZA 1999-913	19990205
PRAI US 1998-20716	A	19980209		
WO 1999-US2061	W	19990127		

AB The essential amino acid content of seed endosperm is modified by the expression of genes for storage proteins with an altered amino acid compn. Amino acid substitutions in the protein are selected to minimize or avoid disruption of the folding of the protein. In particular, analogs of .alpha.-hordothionin with the residues arginine-10 and lysine-45 essential for protein folding retained are described. A gene for an .alpha.-hordothionin contg. 12 lysine residues was constructed by std. PCR methods and placed under control of the .gamma.-zein promoter.

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 2000:289477 BIOSIS

DN PREV200000289477

TI High lysine derivatives of alpha-hordothionin.

AU Rao, A. Gururaj [Inventor, Reprint author]; Beach, Larry [Inventor]

CS Des Moines, IA, USA

ASSIGNEE: Pioneer Hi-Bred International, Inc., Cumming, IA, USA

PI US 5990389 November 23, 1999

SO Official Gazette of the United States Patent and Trademark Office Patents, (Nov. 23, 1999) Vol. 1228, No. 4. e-file.

CODEN: OGUPE7. ISSN: 0098-1133.

DT Patent

LA English

ED Entered STN: 6 Jul 2000

Last Updated on STN: 7 Jan 2002

AB Derivatives of alpha-hordothionin made by position-specific substitution with lysine residues provide lysine enrichment while retaining the antifungal activity of the parent compound.

L2 ANSWER 2 OF 49 CABA COPYRIGHT 2004 CABI on STN

AN 2003:91135 CABA
 DN 20033061938
 TI Expression of an altered antimicrobial **hordothionin** gene in
 barley and oat
 AU Fu, J. M.; Skadsen, R. W.; Kaeppler, H. F.; Vasil, I. K. [EDITOR]
 CS Department of Agronomy, University of Wisconsin, Madison, WI 53706, USA.
 jianmingfu@facstaff.wisc.edu
 SO Plant biotechnology 2002 and beyond. Proceedings of the 10th IAPTC&B
 Congress, Orlando, Florida, USA, 23-28 June, 2002, (2003) pp. 159-160. 3
 ref.
 Publisher: Kluwer Academic Publishers. Dordrecht
 Price: Book chapter; Conference paper
 Meeting Info.: Plant biotechnology 2002 and beyond. Proceedings of the
 10th IAPTC&B Congress, Orlando, Florida, USA, 23-28 June, 2002.
 ISBN: 1-4020-1126-1
 CY Netherlands Antilles
 DT Journal
 LA English
 ED Entered STN: 20030606
 Last Updated on STN: 20030606
 AB An alpha-**hordothionin** (HTH) cDNA of nearly full-length was
 cloned from a cDNA library constructed from barley cv. Morex developing
 endosperm. A truncated cDNA version (Hth2) was developed by deleting
 3[prime] and 5[prime]UTRs and the 18 nts encoding the 6 amino acids
 between the first methionine and the second methionine in the coding
 sequence. The Hth2 was cloned in pAHC25, replacing gus, and the resulting
 plasmid Hth2/pAHC was used for the transformation of immature embryos of
 barley cv. Golden Promise and calluses derived from apical meristems of an
 elite oat cultivar, Belle. Approximately 170 barley plants were grown in a
 greenhouse. Integration of the Hth2 into the barley genomes was confirmed
 by PCR analyses. The transgenic barley plants were derived from at least 6
 independent events as demonstrated by Southern blot analysis, including 1
 bar-only line which probably resulted from plasmid fragmentation. Northern
 blot analysis showed that all lines had mRNAs transcribed from the
 transgene Hth2 except the bar-only line. Seventy oat plants were grown in
 the greenhouse. Stable transformation was confirmed by PCR analysis.
 Southern blot analysis showed that the plants were derived from at least
 15 independent events, including 3 bar-only lines. Similar to barley, HTH
 mRNA was detected in transgenic oat.

L2 ANSWER 3 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 2002:587733 BIOSIS
 DN PREV200200587733
 TI Expression of a seed-specific antifungal protein **hordothionin**
 gene is inhibited in the leaves of transgenic barley and oat at the pre-
 and post-translational levels.
 AU Fu, Jianming [Reprint author]; Abebe, Tilahun; Federico, Maria; Kaeppler,
 Heidi; Skadsen, Ron [Reprint author]
 CS Cereal Crops Research Unit, USDA/ARS, Fargo, ND, USA
 jianmingfu@facstaff.wisc.edu
 SO Plant Biology (Rockville), (2002) Vol. 2002, pp. 61-62. print.
 Meeting Info.: Annual Meeting of the American Society of Plant Biologists
 on Plant Biology. Denver, CO, USA. August 03-07, 2002. American Society of
 Plant Biologists.
 DT Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 LA English
 ED Entered STN: 13 Nov 2002
 Last Updated on STN: 13 Nov 2002

L2 ANSWER 5 OF 49 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 2001:384780 BIOSIS
 DN PREV200100384780
 TI Constitutive expression of an endogenous antifungal protein alpha-
hordothionin in transgenic barley.
 AU Fu, Jianming [Reprint author]; Sathish, Puthigae [Reprint author];
 Federico, Maria L. [Reprint author]; Kaeppler, Heidi F. [Reprint author];
 Skadsen, Ron
 CS Agronomy Dept. of Wisconsin-Madison, Madison, WI, 53706, USA
 jianmingfu@facstaff.wisc.edu
 SO In Vitro Cellular and Developmental Biology Animal, (March, 2001) Vol. 37,
 No. 3 Part 2, pp. 25.A. print.
 Meeting Info.: Congress on In Vitro Biology. St. Louis, Missouri, USA.
 June 16-20, 2001. Society for In Vitro Biology.
 ISSN: 1071-2690.
 DT Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 LA English
 ED Entered STN: 15 Aug 2001
 Last Updated on STN: 19 Feb 2002

=> logoff hold

CSTN INTERNATIONAL SESSION SUSPENDED AT 16:34:02 ON 20 JAN 2004

	U	1	Document ID	Issue Date	Title	Inventor	S	C
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6677503 B1	20040113	Sunflower anti-pathogene proteins and genes and their uses	Bidney, Dennis L. et	<input type="checkbox"/>	<input type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6670467 B2	20031230	Maize promoters	Barbour, Eric et al.	<input type="checkbox"/>	<input type="checkbox"/>
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6667427 B1	20031223	Sclerotinia-inducible promoters and their uses	Bao, Zhangmeng et al.	<input type="checkbox"/>	<input type="checkbox"/>
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030232764 A1	20031218	Use of macrolides in pest control	Hofer, Dieter et al.	<input type="checkbox"/>	<input type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030229918 A1	20031211	Seed specific USP promoters for expressing genes in plants	Wang, Qi et al.	<input type="checkbox"/>	<input type="checkbox"/>
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030200557 A1	20031023	MAIZE PROMOTERS	Barbour, Eric et al.	<input type="checkbox"/>	<input type="checkbox"/>
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6617498 B1	20030909	Inducible promoters	Bruce, Wesley B. et al.	<input type="checkbox"/>	<input type="checkbox"/>
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030167526 A1	20030904	Compositions and methods for identifying transformed cells	Lowe, Keith S. et al.	<input type="checkbox"/>	<input type="checkbox"/>
9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030166855 A1	20030904	Lipoxygenase polynucleotides and methods of use	Navarro Acevedo, Pedro A. et al.	<input type="checkbox"/>	<input type="checkbox"/>
10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030153591 A1	20030814	Use of insecticides in pest control	Lee, Bruce	<input type="checkbox"/>	<input type="checkbox"/>
11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030150024 A1	20030807	Plant MSH2 sequences and methods of use	Kipp, Peter B. et al.	<input type="checkbox"/>	<input type="checkbox"/>
12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030148965 A1	20030807	Use of macrolides in pest control	Hofer, Dieter et al.	<input type="checkbox"/>	<input type="checkbox"/>
13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030140381 A1	20030724	Genes and regulatory DNA sequences associated with stress-related gene expression in plants and methods of using the same	Bate, Nicholas J. et al.	<input type="checkbox"/>	<input type="checkbox"/>
14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030135889 A1	20030717	Methods for enhancing plant transformation frequencies	Ross, Margit C. et al.	<input type="checkbox"/>	<input type="checkbox"/>
15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030106088 A1	20030605	Vascular tissue preferred promoters	Abbitt, Shane E. et al.	<input type="checkbox"/>	<input type="checkbox"/>
16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030097690 A1	20030522	Maize promoters	Barbour, Eric et al.	<input type="checkbox"/>	<input type="checkbox"/>
17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030097689 A1	20030522	Seed-preferred promoters from end genes	Linnestad, Casper et al.	<input type="checkbox"/>	<input type="checkbox"/>
18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030096985 A1	20030522	Small and cysteine rich antifungal defensin and thionin-like protein genes highly expressed in the incompatible interaction	Oh, Boung-Jun et al.	<input type="checkbox"/>	<input type="checkbox"/>
19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030093828 A1	20030515	Seed specific 7Salpha promoter for expressing genes in plants	Wang, Qi et al.	<input type="checkbox"/>	<input type="checkbox"/>
20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030050326 A1	20030313	Use of neonicotinoids in pest control	Lee, Bruce et al.	<input type="checkbox"/>	<input type="checkbox"/>

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21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030046724 A1	20030306	Methods of transforming plants and identifying parental origin of a chromosome in those plants	Ranch, Jerome P. et al.	<input type="checkbox"/>	<input type="checkbox"/>
22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6528704 B1	20030304	Seed-preferred promoters from end genes	Linnestad, Casper et al.	<input type="checkbox"/>	<input type="checkbox"/>
23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030033632 A1	20030213	Maize proteinase inhibitor-like polynucleotides and methods of use	Crane, Virginia C. et al.	<input type="checkbox"/>	<input type="checkbox"/>
24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6512165 B1	20030128	Methods for enhancing plant transformation frequencies	Ross, Margit C. et al.	<input type="checkbox"/>	<input type="checkbox"/>
25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6504084 B1	20030107	Maize NPR1 polynucleotides and methods of use	Crane, III, Edmund H. et al.	<input type="checkbox"/>	<input type="checkbox"/>
26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6504083 B1	20030107	Maize Gos-2 promoters	Barbour, Eric et al.	<input type="checkbox"/>	<input type="checkbox"/>
27	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020188965 A1	20021212	Methods of transforming plants	Zhao, Zou-Yu et al.	<input type="checkbox"/>	<input type="checkbox"/>
28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6486157 B1	20021126	Use of insecticides in pest control	Lee, Bruce	<input type="checkbox"/>	<input type="checkbox"/>
29	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020170094 A1	20021114	Maize NPR1 polynucleotides and methods of use	Crane, Edmund H. III et al.	<input type="checkbox"/>	<input type="checkbox"/>
30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020152500 A1	20021017	Tissue-preferred promoter from maize	Niu, Xiaomu et al.	<input type="checkbox"/>	<input type="checkbox"/>
31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020148007 A1	20021010	Seed-preferred promoter from barley	Jiao, Shuping et al.	<input type="checkbox"/>	<input type="checkbox"/>
32	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020138879 A1	20020926	Agrobacterium mediated transformed sorghum	Cai, Tishu et al.	<input type="checkbox"/>	<input type="checkbox"/>
33	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020132350 A1	20020919	Targeted genetic manipulation using Mu bacteriophage cleaved donor complex	Suzuki, Hideki et al.	<input type="checkbox"/>	<input type="checkbox"/>
34	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020120961 A1	20020829	Methods for transforming immature maize embryos	Ranch, Jerome P. et al.	<input type="checkbox"/>	<input type="checkbox"/>
35	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020108149 A1	20020808	Methods of increasing polypeptide accumulation in plants	Gruis, Darren B. et al.	<input type="checkbox"/>	<input type="checkbox"/>
36	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020108144 A1	20020808	Anti-microbial protein	Manners, John Michael et al.	<input type="checkbox"/>	<input type="checkbox"/>
37	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6429362 B1	20020806	Maize PR-1 gene promoters	Crane, Virginia C.	<input type="checkbox"/>	<input type="checkbox"/>
38	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020094575 A1	20020718	Compositions and methods for stable transformation using Mu bacteriophage cleaved donor complex	Suzuki, Hideki	<input type="checkbox"/>	<input type="checkbox"/>
39	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020088021 A1	20020704	Rice MLH1 ortholog and uses thereof	Mahajan, Pramod B.	<input type="checkbox"/>	<input type="checkbox"/>
40	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020083493 A1	20020627	Major latex protein gene and promoter and their uses	Acevedo, Pedro A. Navarro et al.	<input type="checkbox"/>	<input type="checkbox"/>
41	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6407315 B1	20020618	Seed-preferred promoter from barley	Jiao, Shuping et al.	<input type="checkbox"/>	<input type="checkbox"/>

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42	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6403862 B1	20020611	Seed-preferred promoter from maize	Jiao, Shuping et al.	<input type="checkbox"/>	<input type="checkbox"/>
43	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020069426 A1	20020606	Methyl-D-erythritol phosphate pathway genes	Boronat, Albert et al.	<input type="checkbox"/>	<input type="checkbox"/>
44	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6388066 B1	20020514	MAR/SAR elements flanking RSYN7-driven construct	Bruce, Wesley B. et al.	<input type="checkbox"/>	<input type="checkbox"/>
45	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6369298 B1	20020409	Agrobacterium mediated transformation of sorghum	Cai, Tishu et al.	<input type="checkbox"/>	<input type="checkbox"/>
46	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020023278 A1	20020221	Genetic transformation in plants using site-specific recombination and wide hybridization	Lyznik, Leszek Alexander et	<input type="checkbox"/>	<input type="checkbox"/>
47	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20010047092 A1	20011129	Novel plant promoters and methods of use	Bruce, Wesley B. et al.	<input type="checkbox"/>	<input type="checkbox"/>
48	<input type="checkbox"/>	<input type="checkbox"/>	US 6300489 B1	20011009	Small and cysteine rich antifungal defensin and thionine-like protein genes highly expressed in the incompatible interaction	Oh, Boung-Jun et	<input checked="" type="checkbox"/>	<input type="checkbox"/>
49	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6297056 B1	20011002	Brassica transformation via microprojectile bombardment	Tulsieram, Lomas et al.	<input type="checkbox"/>	<input type="checkbox"/>
50	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20010025380 A1	20010927	Family of maize PR-1 genes and promoters	Crane, Virginia C.	<input type="checkbox"/>	<input type="checkbox"/>
51	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6291666 B1	20010918	Spike tissue-specific promoter	Puthigae, Sathish et al.	<input type="checkbox"/>	<input type="checkbox"/>
52	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6271437 B1	20010807	Soybean gene promoters	Jessen, Holly J. et al.	<input type="checkbox"/>	<input type="checkbox"/>
53	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6271368 B1	20010807	Recombinant mistletoe lectin (rML)	Lentzen, Hans et al.	<input type="checkbox"/>	<input type="checkbox"/>
54	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6265638 B1	20010724	Method of plant transformation	Bidney, Dennis L. et	<input type="checkbox"/>	<input type="checkbox"/>
55	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6225529 B1	20010501	Seed-preferred promoters	Lappegard, Kathryn K. et al.	<input type="checkbox"/>	<input type="checkbox"/>
56	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6177613 B1	20010123	Seed-preferred promoter	Coughlan, Sean J. et al.	<input type="checkbox"/>	<input type="checkbox"/>
57	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6177611 B1	20010123	Maize promoters	Rice, Douglas A.	<input type="checkbox"/>	<input type="checkbox"/>
58	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6127600 A	20001003	Methods of increasing accumulation of essential amino acids in seeds	Beach, Larry et al.	<input type="checkbox"/>	<input type="checkbox"/>
59	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6080913 A	20000627	Binary methods of increasing accumulation of essential amino acids in seeds	Tarczynski, Mitchell C. et al.	<input type="checkbox"/>	<input type="checkbox"/>
60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6015891 A	20000118	Synthetic insecticidal crystal protein gene having a modified frequency of codon usage	Adang, Michael J. et al.	<input type="checkbox"/>	<input type="checkbox"/>
61	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6013523 A	20000111	Transgenic plants comprising a synthetic insecticidal crystal protein gene having a modified frequency of codon usage	Adang, Michael J. et al.	<input type="checkbox"/>	<input type="checkbox"/>
62	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5994521 A	19991130	Full length transcript (FLt) promoter from figwort mosaic caulimovirus (FMV) and use to express chimeric genes in plant cells	Maiti, Indu B. et al.	<input type="checkbox"/>	<input type="checkbox"/>
63	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5990389 A	19991123	High lysine derivatives of .alpha.-hordothionin	Rao, A. Gururaj et al.	<input type="checkbox"/>	<input type="checkbox"/>
64	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5936140 A	19990810	Methods of producing feed by reducing endogenous protein levels in soybean	Beach, Larry Ray	<input type="checkbox"/>	<input type="checkbox"/>
65	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5885802 A	19990323	High methionine derivatives of .alpha.-hordothionin	Rao, Aragula Gururaj	<input type="checkbox"/>	<input type="checkbox"/>

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66	<input type="checkbox"/>	<input type="checkbox"/>	US 5885801 A	19990323	High threonine derivatives of .alpha.-hordothionin	Rao, Aragula Gururaj	<input checked="" type="checkbox"/>	<input type="checkbox"/>
67	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5850024 A	19981215	Reduction of endogenous seed protein levels in plants	Beach, Larry et al.	<input type="checkbox"/>	<input type="checkbox"/>
68	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5850019 A	19981215	Promoter (FLt) for the full-length transcript of peanut chlorotic streak caulimovirus (PCLSV) and expression of chimeric genes in plants	Maiti, Indu B. et al.	<input type="checkbox"/>	<input type="checkbox"/>
69	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5885802 A	19980902	New modified alpha-hordothionin having methionine amino acid substns. - to increase the methionine content of e.g. animal feed	RAO, G A et al.	<input type="checkbox"/>	<input type="checkbox"/>
70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5885801 A	19980902	New modified alpha-hordothionin having threonine amino acid substns. - to increase the threonine content of e.g. animal feed	RAO, G A et al.	<input type="checkbox"/>	<input type="checkbox"/>
71	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5717061 A	19980210	Synthetic antimicrobial peptides	Rao, A. Gururaj et al.	<input type="checkbox"/>	<input type="checkbox"/>
72	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5703049 A	19971230	High methionine derivatives of .alpha.-hordothionin for pathogen-control	Rao, Aragula Gururaj	<input type="checkbox"/>	<input type="checkbox"/>
73	<input type="checkbox"/>	<input type="checkbox"/>	US 5703049 A	19971230	Killing and inhibiting phytopathogenic microorganisms - by expressing methionine rich alpha-hordothionin, useful in, e.g. improving plant feed formulations	RAO, A G	<input checked="" type="checkbox"/>	<input type="checkbox"/>
74	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5607914 A	19970304	Synthetic antimicrobial peptides	Rao, A. Gururaj et al.	<input type="checkbox"/>	<input type="checkbox"/>
75	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 9638563 A1	19961205	HIGH METHIONINE DERIVATIVES OF alpha -HORDOTHIONIN	RAO, GURURAJ A	<input type="checkbox"/>	<input type="checkbox"/>
76	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 9638562 A1	19961205	HIGH THREONINE DERIVATIVES OF alpha -HORDOTHIONIN	RAO, ARAGULA GURURAJ	<input type="checkbox"/>	<input type="checkbox"/>
77	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5580852 A	19961203	Derivatives of tachyplesin having inhibitory activity towards plant pathogenic fungi	Putnam, Rebecca J. et al.	<input type="checkbox"/>	<input type="checkbox"/>
78	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5567600 A	19961022	Synthetic insecticidal crystal protein gene	Adang, Michael J. et al.	<input type="checkbox"/>	<input type="checkbox"/>
79	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5488035 A	19960130	Peptide with inhibitory activity towards plant pathogenic fungi	Rao, Aragula G.	<input type="checkbox"/>	<input type="checkbox"/>
80	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5464944 A	19951107	Synthetic antifungal peptides	Rao, A. Gururaj et al.	<input type="checkbox"/>	<input type="checkbox"/>
81	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5380831 A	19950110	Synthetic insecticidal crystal protein gene	Adang, Michael J. et al.	<input type="checkbox"/>	<input type="checkbox"/>
82	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 9416078 A2	19940721	HIGH LYSINE DERIVATIVES OF ALPHA-HORDOTHIONIN	RAO, A GURURAJ et al.	<input type="checkbox"/>	<input type="checkbox"/>
83	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 9416078 A1	19940721	HIGH LYSINE DERIVATIVES OF ALPHA-HORDOTHIONIN	RAO, A GURURAJ et al.	<input type="checkbox"/>	<input type="checkbox"/>
84	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EP 745126 B	19940721	Derivatives of alpha hordothionin - have high lysine content, and retain antifungal activity of parent compound	BEACH, L R et al.	<input type="checkbox"/>	<input type="checkbox"/>
85	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EP 502718 A	19920909	Treatment of bacterial and fungal infections - using natural and synthetic proteins e.g. adrenocorticotrophic hormone, magainin, poly-L-arginine, mastoparan, kassinin etc.	DUVICK, J et al.	<input type="checkbox"/>	<input type="checkbox"/>

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